

Prediction of MPE Limit
OET Bulletin 65, Edition 97-01 (old unused ref)
New References to be KDB and CFR 47 1.1310 and RSS102
~~Equation from page 18~~

$$S = \frac{PG}{4\pi R^2}$$

S= power density in W/m²

$$R = \sqrt{\frac{PG}{4\pi S}}$$

P= power input to the antenna

G= power gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the center of radiation of the antenna

Choose



Occupational/Controlled



General Population/Uncontrolled

Tx Frequency: 407.00 (MHz)

Maximum Peak Power at Antenna Input Terminal: 44.771 (dBm)

Antenna gain : 2.15 (dBi)

13.567 W/m²
V/m of
71.517 limit for S

S= 1.3567 (mW/cm²)

S=

P= 30000.0000 (mW)

P=

G= 1.6406 (numeric)

G=

R = 53.7303 (cm)

R =

**S (mw/cm²) at
specific distance
in cm**

9.780940619

Enter
distance
desired in
cm

20

192.026 V/M (Efield/m)